

BIO-PLASTICS EUROPE

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BIO-PLASTICS EUROPE

Developing and Implementing Sustainability-Based Solutions for Bio-Based Plastic Production and Use to Preserve Land and Sea Environmental Quality in Europe

Coordinator: Hamburg University of Applied Sciences (HAW)

Beneficiaries: 22 partners /13 countries

Type of Action: IA (Innovation Action)

EU contribution: € 8 117 529,63

Duration: 01/10/2019 – 30/09/2023



The main objective:

To develop sustainable strategies and solutions for bio-based plastic products, as well as to develop approaches focused on circular innovation for the whole bioplastics system. These may be deployed to support policy-making, innovation and technology transfer.



Objective 6:
Communication Strategy
+ cooperative knowledge
sharing of Best Practices and
Lessons Learned
WP9

WP1: Ethics

WP2: Project Management

WP3: Identification and tests of innovative
product design

WP4: Plastic waste collection, recycling, and
littering

WP5: Pre-normative research and field tests

WP6: Bio-based plastic safety components

WP7: Replication, policy-making, capacity-
building and upscaling

WP8: Environmental and economic
assessments of product life cycles and
business models

WP9: Information, communication and dissemination of the results

BIO-PLASTICS EUROPE

**Pushes towards
circular economy**



WP3 Identification and test
of innovative product design

WP4 Plastic waste collection,
recycling and littering

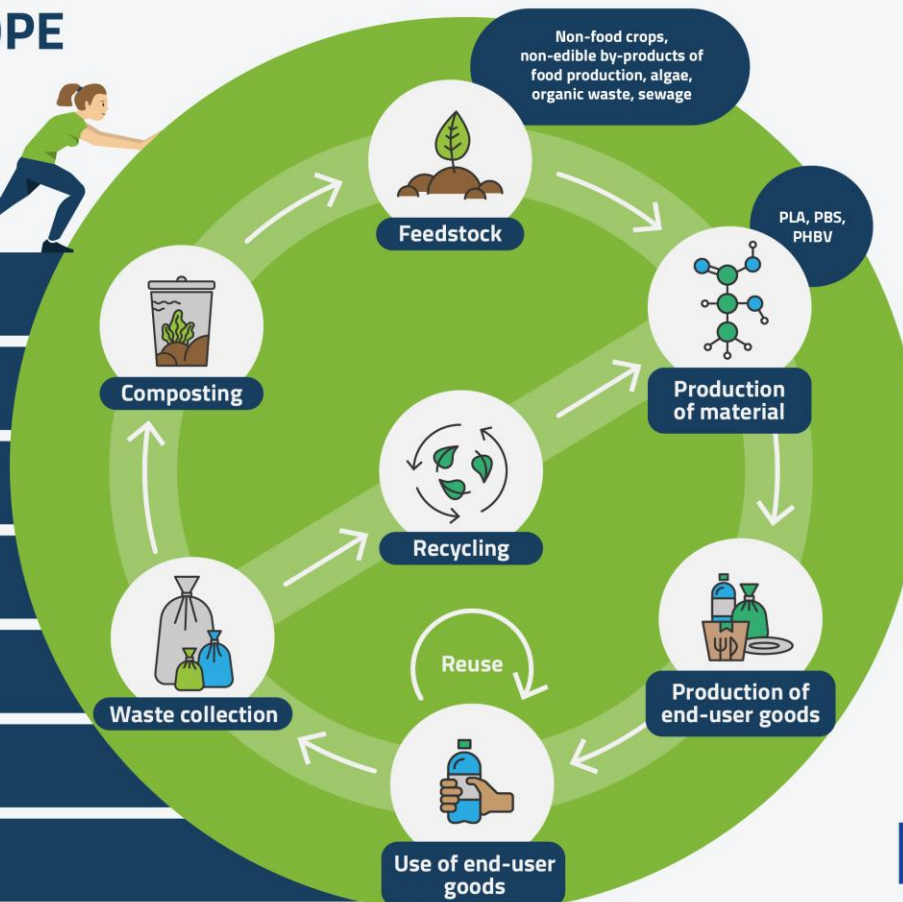
WP5 Prenormative research
and field tests

WP6 Health and
environmental safety

WP7 Replication, policy-making,
capacity-building and upscaling

WP8 Life cycle assessment
environmental and economic

WP9 Information, communication,
and dissemination of results





EXPECTED RESULTS

FOCUS

Cutlery, Soft and Rigid Packaging,

Agricultural Mulch Film, Toys and Aquatic Materials

INNOVATIVE MATERIALS

to foster and encourage deployment of innovative bio-based and biodegradable materials

STAKEHOLDERS ENGAGEMENT

to ensure strong commitment of producers, politicians, industrial and private consumers

BUSINESS MODELS

to experiment with innovative business models by incorporating circularity and sustainability to maximize the value of materials along the entire value chain

SAFETY PROTOCOLS

to ensure the safe use and end-of-life management on innovative bio-based plastics

5 Prototypes by M18:

The prototypes under development are:

1. BPE-SP-PBS ----- Soft Packaging
2. BPE-RP-PLA ----- Rigid Packaging + Fishing Crates
3. BPE-T-PHBV ---- Toys + Fishing Bait
4. BPE-AMF-PLA – Agricultural mulch + Marine Geomaterial
5. BPE-C-PLA ----- Cutlery

ARTIC BIOMATERIALS - Finland 
NATURE PLAST - France 

Selected polymers for the demo applications are polylactic acid (PLA), polybutylene succinate (PBS), and one type of polyhydroxyalkanoate (namely PHBV). All three are commonly produced from renewable sources.

WP3

WP5

SENT FOR LABORATORY AND FIELD TESTS

- Samples prepared-received
- Test Protocols finished
- Tests started 1st of September 2020
- First preliminary results obtained 2021



HERE NOW!

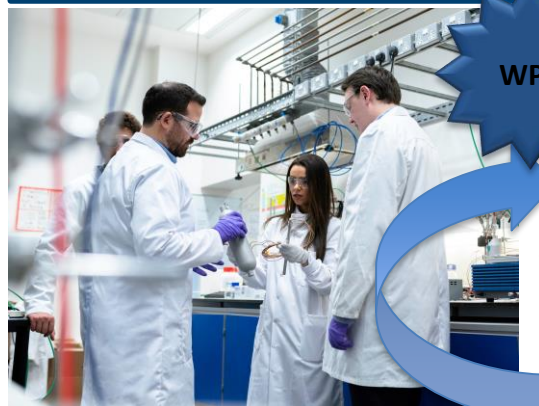
WP3

MODIFICATION of the compounds after 1st round tests

Development of aquatic prototypes:

- BPE-FB-PHBV --- Fishing Baits
- BPE-MG-PLA ---- Marine Geomaterial
- BPE-FC-PLA ----- Fishing Crates

2nd round of TESTS



EU Policy relevance of the Project

KEY deliverables

- D5.2 Technical Report: biodegradable and compostable solutions supporting policymaking in research, innovation and technology with focus on the EU Plastic Strategy (M46)
- D5.4 Policy brief (M48 – public)
- D7.5 Guidelines and summary document for policy makers (M48)



Contribution to the EU Policy

- Plastics strategy, Revision of current EU policies, Policy and Governance suggestions on the safety of bio-based and biodegradable plastics
- Indirect contribution to the EU Marine Strategy Framework Directive (MSFD)

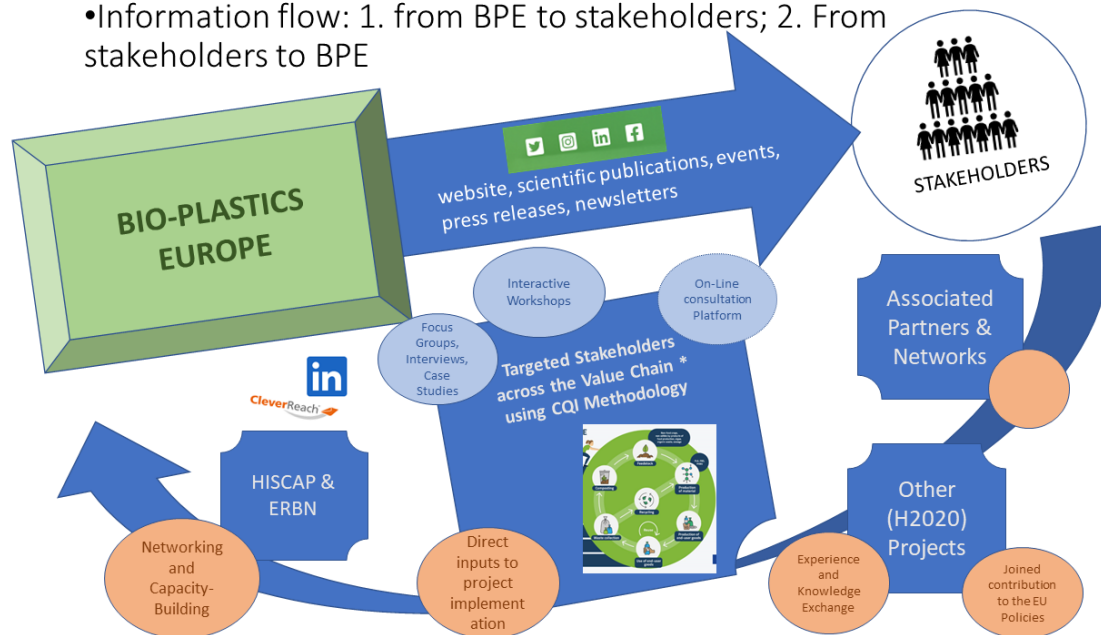
Joint work with SEALIVE project – round table in March/2 joint events in June and October 2021

Besides focusing on research....



STAKEHOLDER ENGAGEMENT

- Information flow: 1. from BPE to stakeholders; 2. From stakeholders to BPE



Pool of Stakeholders
counts over 1000!

STAKEHOLDER ENGAGEMENT

12 ONLINE
STAKEHOLDER
PROMOTION EVENTS

September 2020 –
January 2021

PROMOTE PROJECT
CLUSTER stakeholders
FUTURE INVOLMENT

PROTOCOL
defined 5 levels of
engagement

Over 780 participants

- 30% companies
- 70% Research institution and public services

NETWORKS

4th event
29th June



LinkedIn: over 400 members
Preparing events
Foster communication
Share experience



4th event
12th October

Connect cities
Preparing events
Exchange experience
Offer solutions



**HISTORIC CITIES AGAINST
PLASTIC WASTE**

Networking ...

#ZeroWasteCities



**ZERO
PLASTIC
OCEANS.**

europa
bioplastics

SEALIVE



RACE FOR WATER
A FOUNDATION TO PRESERVE WATER

costa
edutainment experience



**BIO
PLASTICS
EUROPE**



Upcoming events



4th EBRN EVENT:

"Opportunities and Constraints in EU policy for Bio-based and Biodegradable Plastics" (29th June) – joint event BIO-PLASTICS EUROPE and SEALIVE

REGISTRATION IS OPEN: <https://bioplasticseurope.eu/news-events/eu-policy-bio-based-biodegradable-plastics-event>



4th HISCAP EVENT:

"Plastic Waste Management of European Coastal Cities" (12th October)

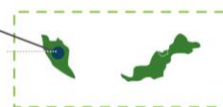
REGISTRATION OPENS in July: <https://bioplasticseurope.eu/news-events>



Horizon 2020



MALAYSIA



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